

Abstract

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Title of Thesis: **Preparation of cationactive tensides with hydroxymethyl moiety**

This diploma thesis will refer about free homological series of cationic tensides bearing quarter nitrogen in their molecule specifically 4-hydroxymethyl-1-alkylpyridinium-bromide, 3-hydroxymethyl-1-alkylpyridinium-bromide and 2-hydroxymethyl-1-alkylpyridinium-bromide derivatives. Each of this series contained five homologues with alkyl linker length between 10 and 18 with even number of carbon atoms. Above mentioned compounds were characterised by melting point, NMR spectra and elemental analysis. Next topic of my work was evaluation of these compounds. Critical micellar concentrations were measured employing conductimetric method. Compounds were further tested against several fungal and bacterial phylum. Structure-activity relationship studies of influence of substituted position and length of alkyl linker on previously mentioned properties were carried out.